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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/838,139	04/20/2001	Katsumi Mabuchi	503.34897CC3	2882

20457 7590 05/06/2003

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EXAMINER

SHULMAN, MARK S

ART UNIT

PAPER NUMBER

3744

DATE MAILED: 05/06/2003

12

Please find below and/or attached an Office communication concerning this application or proceeding.

Offic Action Summary	Application No.	Applicant(s)
	09/838,139	MABUCHI ET AL. 
	Examiner	Art Unit
	Mark S. Shulman	3744

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Peri d f r Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 24 February 2003.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disp sition of Claims

- 4) Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) 1 is/are withdrawn from consideration.
- 5) Claim(s) 4-5 is/are allowed.
- 6) Claim(s) 2,3 and 6-8 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
 If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s). _____.
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)
 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____. 6) Other:

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 2/24/03 have been fully considered but they are not persuasive. As to the argument that the prior art does not disclose a production method, this is not persuasive because the production method, in the prior art is inherent. In both Kantner and Itoh the production method is inherent, when the regenerator and generator are heated to a high temperature and by the production of the composite film in the regenerator. As to the argument that Itoh regenerator is not in an atmosphere is not persuasive because the regenerator must be in an atmosphere. Itoh apparatus, unless in a vacuum, must be in an atmosphere, while it heats the surface of at least part of a heat exchanger and high temperature regenerator.

Allowable Subject Matter

2. Claims 4-5 are allowed.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 2-3 and 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kantner (4,596,122) in view of Itoh et al. (4,596,122). Kantner discloses an absorption refrigerator with a high temperature regenerator (201) which uses both

refrigerant and solvent (Col. 19, Liens 40-45), a heat exchanger (223), a burner (205) which heats both the heat exchanger (223) and regenerator (201). Kantner discloses all of the limitations of the claims, except for the oxide film means and water solution handling means. Itoh teaches a vapor absorption refrigerator with a regenerator (1a) which forms anti-corrosive film in side the wall of the regenerator (Col. 5, Lines 45-66), and water solution handling means (Col. 5, Lines 9-41) which describes the water handling through the regenerator (1a), condenser (2), heat exchanger (5), pump (8a) and evaporation pipe (9). Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention, to have applied the teachings of Itoh would have provided Kantner with the oxide means and the waters solution means for the purpose of effectively using the absorption solution.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark S. Shulman whose telephone number is (703) 305-0247. The examiner can normally be reached on Mon.-Thur. 7:30am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Denise Esquivel can be reached on (703) 308-2597. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7764 for regular communications and (703) 305-3463 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-8231.

MS
MS
May 1, 2003

WILLIAM DOERRLER
WILLIAM DOERRLER
PATENT EXAMINER
GROUP 3400